

APPENDIX F
General Health

TABLE F-1.
Dependent Variable-Covariate Associations for General Health Assessment

Dependent Variable	Level	Age			p-Value	Race		p-Value
		Born >1942	Born 1923-1941	Born ≤1922		Black	Nonblack	
Self-Perception of Health	Excellent	(n=957)	(n=1,253)	(n=83)	0.062	(n=137)	(n=2,156)	0.242
		49.1%	48.9%	50.6%		43.8%	49.4%	
		45.2%	43.6%	42.2%		48.9%	43.9%	
		5.3%	5.6%	6.0%		7.3%	5.4%	
Appearance of Illness or Distress	Yes	(n=956)	(n=1,253)	(n=84)	0.016	(n=137)	(n=2,156)	0.744
		0.1%	1.1%	1.2%		0.0%	0.7%	
		(n=957)	(n=1,253)	(n=84)		(n=137)	(n=2,157)	
		0.4%	0.6%	11.9%		2.9%	0.8%	
Relative Age	Younger	93.4%	93.9%	85.7%	<0.001	91.2%	93.5%	0.039
		6.2%	5.6%	2.4%		5.8%	5.7%	
		(n=957)	(n=1,253)	(n=84)		(n=137)	(n=2,157)	
		r=0.045	r=0.230	r=0.230		$\bar{x}=21.65$	$\bar{x}=21.58$	
Percent Body Fat (continuous) (discrete)	Obese	18.1%	23.2%	16.7%	0.032 0.008	$\bar{x}=24.8\%$	$\bar{x}=20.6\%$	0.874 0.283
		(n=955)	(n=1,251)	(n=84)		(n=137)	(n=2,153)	
		r=0.230	r=0.230	r=0.230		$\bar{x}=5.21$	$\bar{x}=5.16$	
		3.0%	6.6%	15.5%		5.8%	5.4%	
Sedimentation Rate (continuous) (discrete)	Abnormal	(n=955)	(n=1,251)	(n=84)	<0.001 <0.001	(n=137)	(n=2,153)	0.936 0.975
		r=0.230	r=0.230	r=0.230		$\bar{x}=5.21$	$\bar{x}=5.16$	
		3.0%	6.6%	15.5%		5.8%	5.4%	
		(n=955)	(n=1,251)	(n=84)		(n=137)	(n=2,153)	

TABLE F-1. (continued)
Dependent Variable-Covariate Associations for General Health Assessment

Dependent Variable	Level	Occupation			p-Value	Personality Type		
		Officer	Enlisted Flyer	Enlisted Groundcrew		A	B	p-Value
Self-Perception of Health	Excellent	(n=873)	(n=383)	(n=1,037)	<0.001	(n=954)	(n=1,222)	<0.001
		64.5%	40.0%	39.4%		54.5%	45.6%	
		31.4%	51.4%	52.4%		38.9%	47.8%	
		3.2%	5.2%	7.5%		4.9%	6.0%	
Appearance of Illness or Distress	Yes	(n=874)	(n=383)	(n=1,036)	0.078	--	--	
		0.5%	1.6%	0.6%				
		(n=874)	(n=383)	(n=1,037)				
		Younger Same Older	1.5% 95.2% 3.3%	0.0% 91.4% 8.6%		<0.001	--	
Percent Body Fat (continuous) (discrete)	Obese	(n=874) $\bar{x}=21.44$	(n=383) $\bar{x}=21.31$	(n=1,037) $\bar{x}=21.81$	0.158 0.007	--	--	
		17.6%	20.9%	23.5%				
Sedimentation Rate (continuous)* (discrete)	Abnormal	(n=873) $\bar{x}=4.95$	(n=383) $\bar{x}=5.87$	(n=1,034) $\bar{x}=5.10$	0.006 0.034	(n=955) $r=-0.036$	(n=1,218) 4.2%	0.096 0.017
		4.2%	7.8%	5.5%		6.6%		

*Means transformed from natural logarithm scale; correlations based on natural logarithm versus covariate.

--Covariate not investigated for dependent variable.

TABLE F-2.
Summary of Exposure Index-by-Covariate Interactions for General Health Variables

Variable	Interaction (Occupation)	Stratification	Statistic	Exposure Index			Exposure Index Contrast	Adj. Relative Risk (95% C.I.)	p-Value
				Low	Medium	High			
Percent Body Fat	Exposure Index-by-Age (Enlisted Flyer)	Born >1942	n	11	18	11	Overall	—	0.048
			Number/%						0.754
			Lean/Normal	11 100.0%	16 88.9%	7 63.6%	M vs. L		0.090
	Born 1923-1941		Obese	0 0.0%	2 11.1%	4 36.4%	H vs. L	1.72 (0.59,5.01) 1.36 (0.45,4.09)	0.322 0.589
			n	44	43	42	Overall		0.604
			Number/%				M vs. L		
			Lean/Normal	37 84.1%	32 74.4%	33 78.6%	H vs. L		
			Obese	7 15.9%	11 25.6%	9 21.4%			
			n	0	2	0	Overall		—
			Number/%				M vs. L		—
			Lean/Normal	0 —	2 100.0%	0 —	H vs. L		—
			Obese	0 —	0 0.0%	0 —			—

TABLE F-2. (continued)
Summary of Exposure Index-by-Covariate Interactions for General Health Variables

Variable	Interaction (Occupation)	Stratification	Statistic	Exposure Index			Exposure Index Contrast	Adj. Relative Risk (95% C.I.)	p-Value
				Low	Medium	High			
Sedimentation Rate	Exposure Index-by Age	Born <1922 Nonblack	n	0	2	0	Overall	—	—
			Adj. Mean ^a	—	8.31	—	M vs. L	—	—
			95% C.I. ^a	—	—	—	H vs. L	—	—
	Exposure Index-by Race (Enlisted Flyer)	Born <1922 Black	n	0	0	0	Overall	—	—
			Adj. Mean ^a	—	—	—	M vs. L	—	—
			95% C.I. ^a	—	—	—	H vs. L	—	—
	Born 1923-1941 Nonblack	n	41	40	39	0.758	Overall	—	0.758
			Adj. Mean ^a	6.68	5.85	6.52	M vs. L	—	0.486
			95% C.I. ^a	(5.16,8.62)	(4.50,7.59)	(5.01,8.48)	H vs. L	—	0.904
	Born 1923-1941 Black	n	1	3	3	0.283	Overall	—	0.283
			Adj. Mean ^a	6.38	5.91	1.70	M vs. L	—	0.957
			95% C.I. ^a	(0.92,44.28)	(1.90,18.40)	(0.65,4.42)	H vs. L	—	0.284
	Born >1942 Nonblack	n	11	17	9	0.433	Overall	—	0.433
			Adj. Mean ^a	4.23	6.68	5.24	M vs. L	—	0.202
			95% C.I. ^a	(2.53,7.09)	(4.40,10.14)	(3.01,9.12)	H vs. L	—	0.579
	Born >1942 Black	n	0	1	0	—	Overall	—	—
			Adj. Mean ^a	—	12.00	—	M vs. L	—	—
			95% C.I. ^a	—	—	—	H vs. L	—	—

TABLE P-2. (continued)
Summary of Exposure Index-by-Covariate Interactions for General Health Variables

Variable	Interaction (Occupation)	Stratification	Statistic	Exposure Index			Exposure Index Contrast	Adj. Relative Risk (95% C.I.)	P-Value
				Low	Medium	High			
Sediment- ation Rate	Exposure Index-by Age (Enlisted Flyer)	Born \geq 1942	n	11	18	11	Overall	—	0.613
			Number/%						
			Abnormal	0 0.0%	1 5.6%	1 9.1%	M vs. L		
		Born 1923-1941	Normal	11 100.0%	17 94.4%	10 90.9%	H vs. L		
			n	44	43	42	Overall	0.58 (0.13,2.64) 1.24 (0.35,4.44)	0.484 0.660
			Number/%						
			Abnormal	5 11.4%	3 7.0%	6 14.3%	M vs. L		
			Normal	39 88.6%	40 93.0%	36 85.7%	H vs. L		
		Born \leq 1922	n	0	2	0	Overall	—	—
			Number/%						
			Abnormal	0 —	1 50.0%	0 —	M vs. L		
			Normal	0 —	1 50.0%	0 —	H vs. L		

*Percentage not given due to zero participants for a particular exposure index classification; relative risk or adjusted mean/confidence interval/p-value not given due to cells with zero frequency; adjusted relative risk not applicable for continuous analysis of a variable.

*Transformed from natural logarithm scale.

Note: Small sample sizes may affect validity of overall p-value.